ADE IT Modernization Effort Update

Presented to:

Arizona Ready IT Work Group

September 28, 2012

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Chief Information Officer

Arizona Department of Education

Agenda

- Data Governance

- SLDS Dashboard Pilot

- Quarterly Progress Report

- Responding to Your Recommendations

- Team Roles and Expectations

- Next Steps

2013 Approach

- Focus on Data Governance policies
- Leverage other state lessons learned
- Fast-track deployment of Arizona Education Data Driven Decision System (ED³S) December 2012
- Begin Phase I Development SAIS Replacement System
  - School Finance
  - Statewide Student ID
- Begin transformation of ADE Systems (Enterprise Architecture)
  - On Line Certification, Grants Management, Great Plains Phase II, ESS, Enterprise, LEA Calendar, Events Management, Network and Operations
- Deliver Instruction Improvement System to support Common Core

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Ed Jung
THE NEED FOR DATA GOVERNANCE

ADE IT team visit to Georgia

- Why Georgia?

  - SLDS already deployed

  - History to learn from
    - Highly qualified resources already in place
    - Systems working
    - Existing, structured Data Governance
    - Started Accountability system at same time as Arizona but took different path

- Demo of Dashboards

FY2012 Lessons learned

- Enterprise Architecture
  - Stovepipe program areas resulting in stovepipe applications
  - Large enough sample size to confirm action plan
  - Desire to change vs. Will to change
  - Team redeployed to support existing and newly-initiated projects

- SAIS Functional User Requirements
  - Focus on documenting customer requirements
  - Need for data governance policy

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Takeaways from visit to Georgia

- Will fast-track deployment of SLDS December 2012
  - Capture how Georgia SLDS works
  - Modify and make useful to Arizona

- Identified ADE Challenges
  - Need for data governance policies
  - Structured approach starting at agency

- Need to reorganize project resources
  - Integrate EA and IMS into existing projects

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Need for policies

- Lack of internal data governance policies and structure
  - Master Data Management
  - Uniform data collection practices
  - Ensure compliance with privacy and security policies

- Agency data governance
  - Chief Technology Officer
  - Data Officer
  - ADE internal data governance board

- AELAS data governance
  - AZ Ready IT Task Force
  - Board of Education
  - Data Governance Commission

Ray Adair

SLDS DASHBOARD PILOT

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Az ED³S Maturity Levels Defined

1	2	3	4
Integration	**Reporting**	**Analytics**	**Education Intelligence**
Identity, content, data and process	Community wide access	Everyone tracking to same the goals	Next Generation Learning

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Data hierarchy of needs
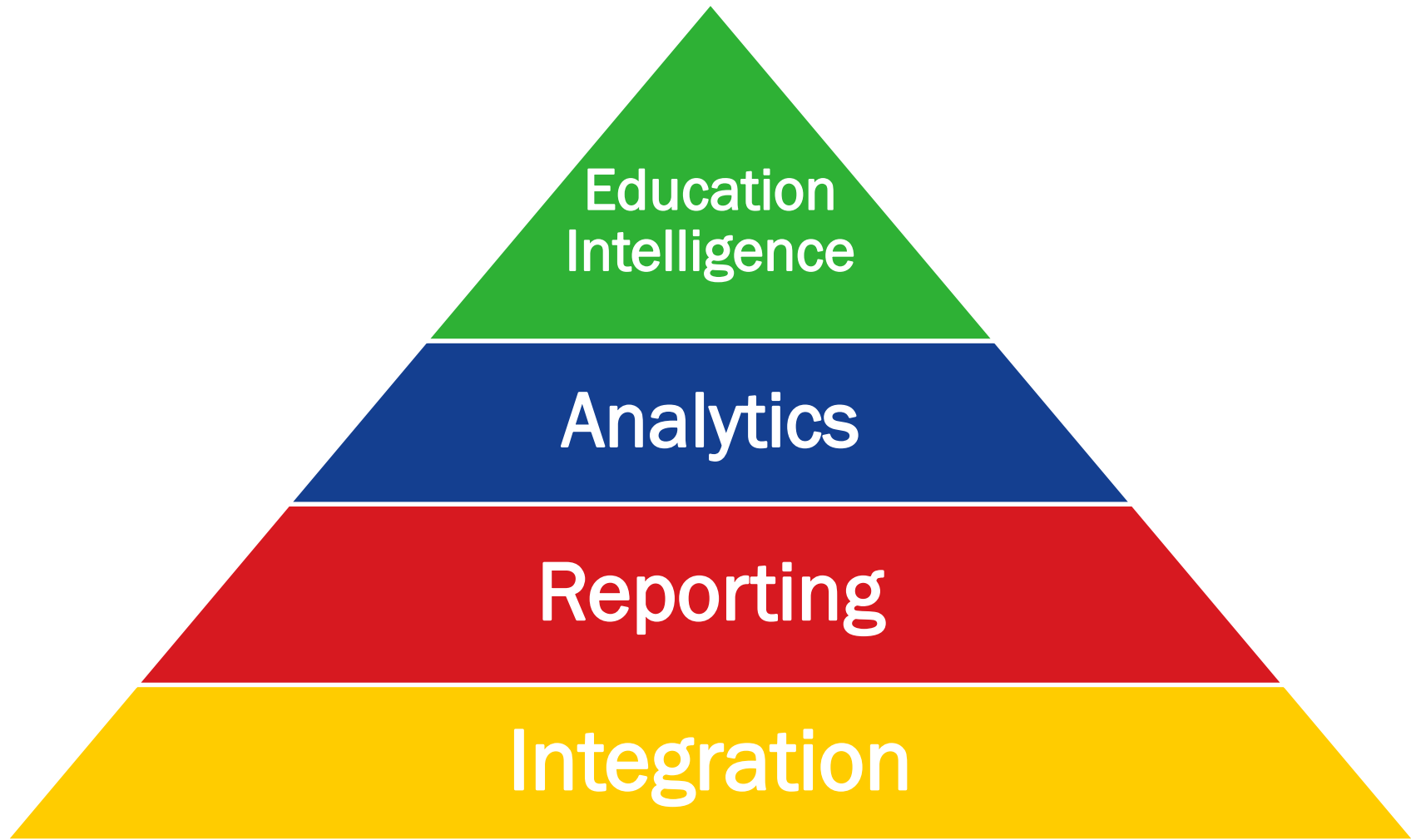
State Longitudinal Data System
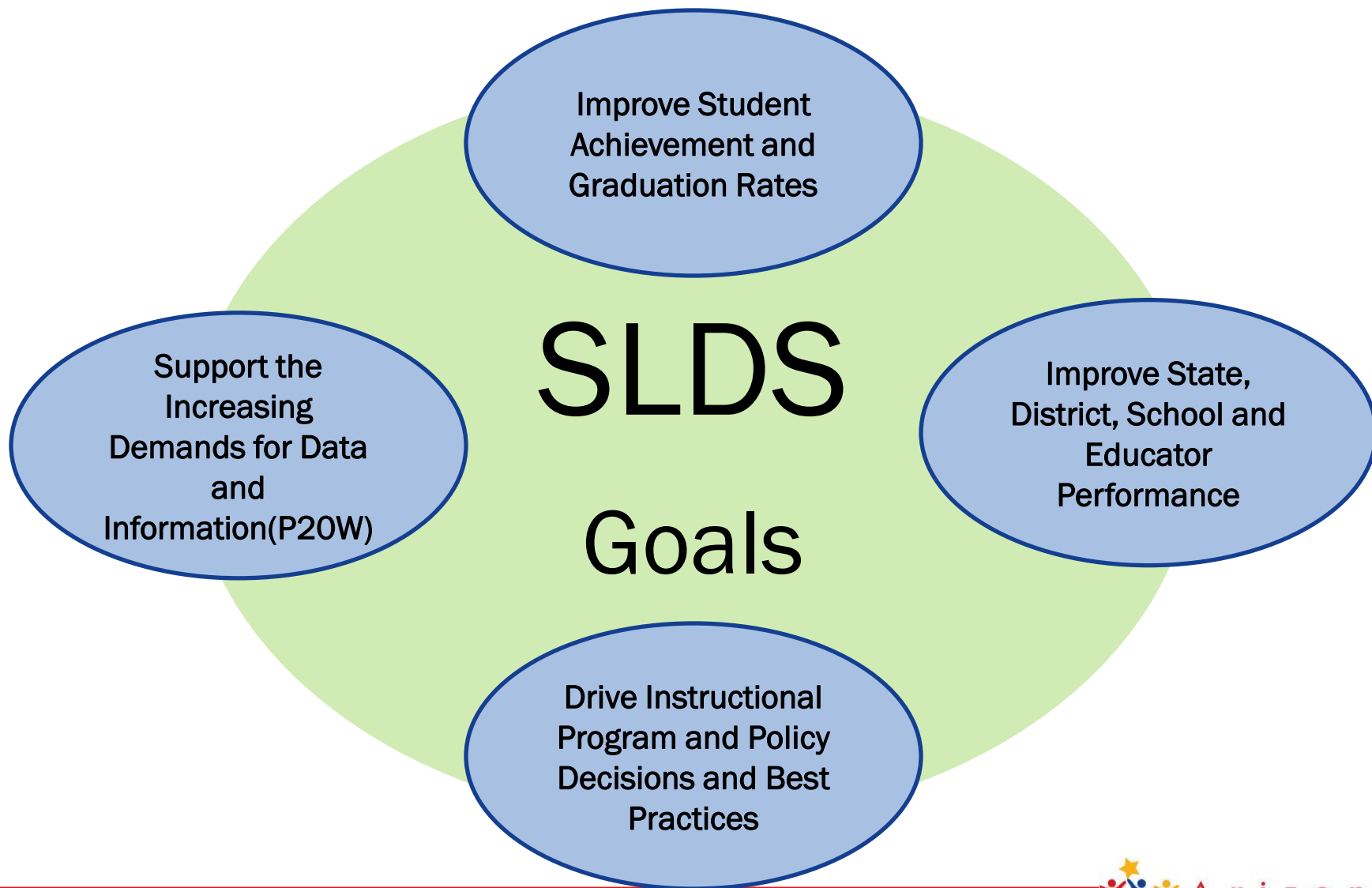
State Longitudinal Data System

Create a State-wide Longitudinal Data System which provides Secure, Accurate, Accessible and Actionable education information to Legislators, Administrators, Teachers, Students and Parents.

SLDS

Objectives

Data Governance – Accurate Data

Online Dashboards and Reports – Accessible and Actionable

SAML and AFDS based authentication and authorization solution - Secure

EDFI Compliant ODS – Accurate and Actionable

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SLDS Program Roadmap

Ed-Fi Compliant Solution II
(Historical & Operational Information)

Ed-Fi Compliant Solution I
(Historical Dashboards)

District Pilots
(Requirements)

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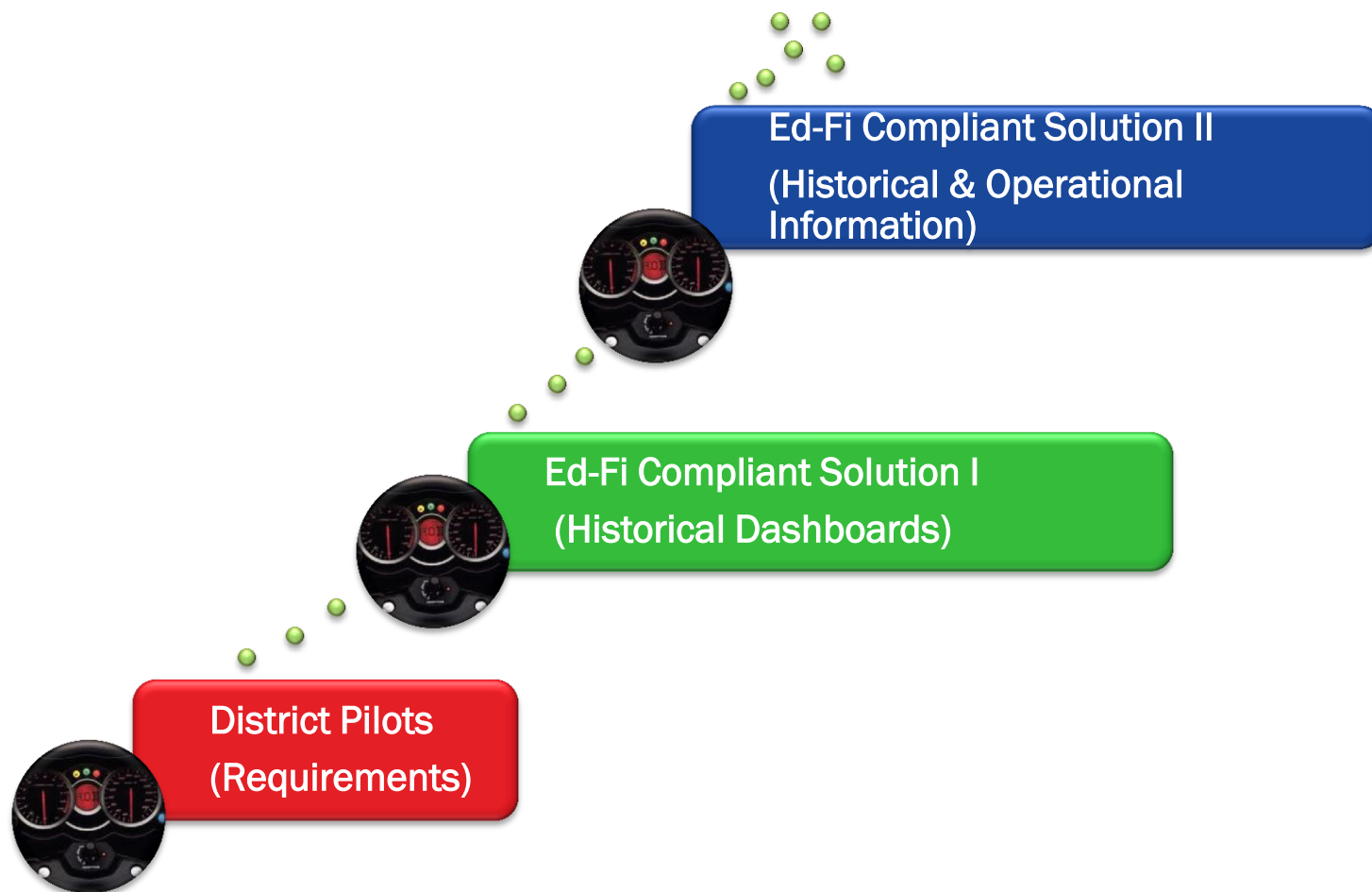
SLDS Program Roadmap

District Pilots

(Requirements Gathering)

- Vail School District
    - Mid-November –Mid December
- One 5th grade class
    - 5 Dashboards from Georgia model
    - Historical information only
    - Assessments
    - Attendance
    - Enrollments and withdrawals
- Additional pilots
    - January thru February

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SLDS Program Roadmap

Ed-Fi Compliant Solution I

(Historical Dashboards)

- September 2012 - Summer 2013
- Planning and preparation started
- Data Governance
- Map ADE data to Ed-Fi model
- Build SAML based authentication and authorization
- Use Ed-Fi pre-built dashboards to meet requirements
- Rollout schedule TBD

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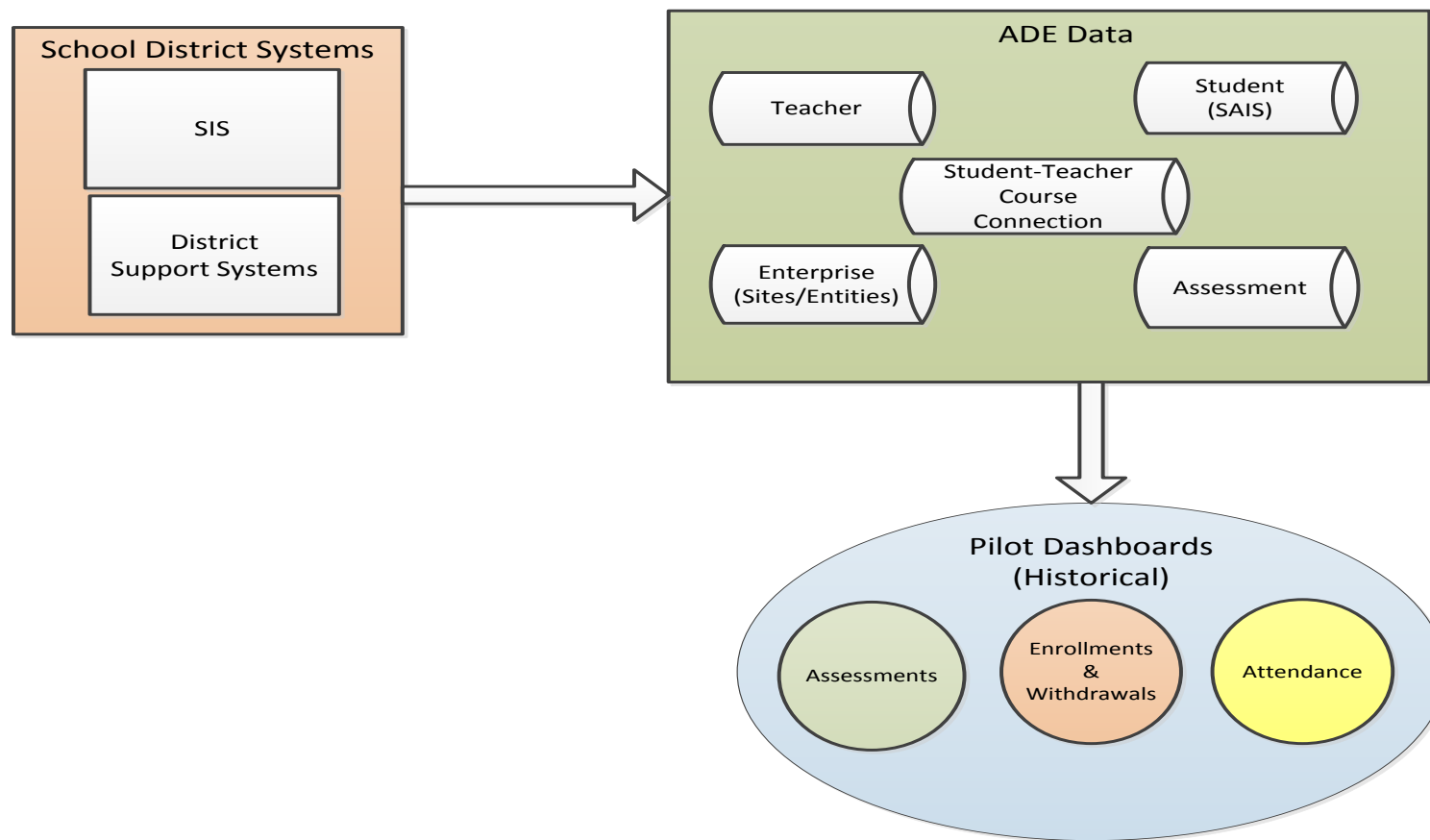
SLDS Program Roadmap

Ed-Fi Compliant Solution II

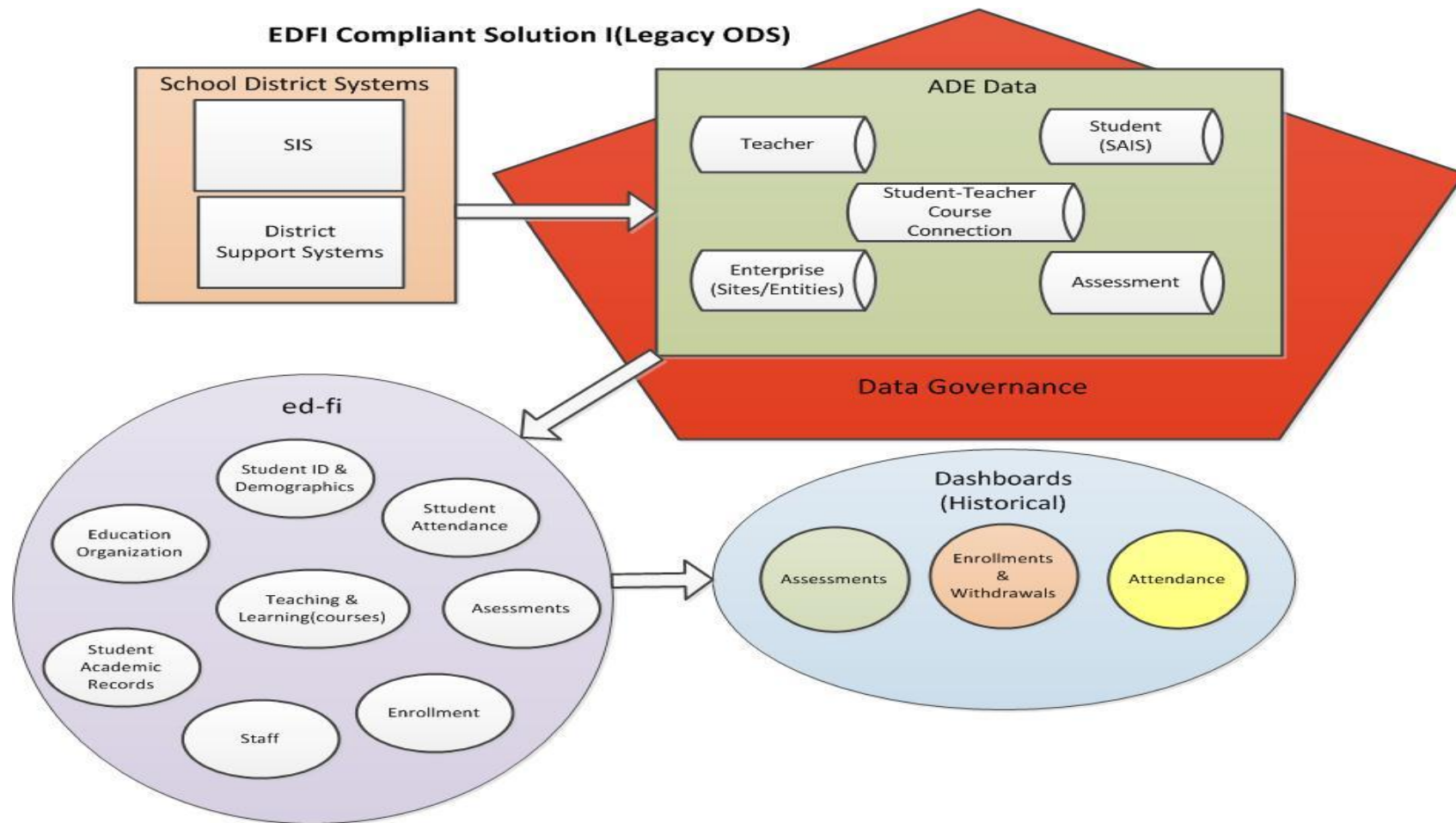(Operational and Historical Information)

- September 2012-Summer 2014
- Planning and preparation started
- Data Governance
- Build near-time Ed-Fi compliant xml extractors in SIS
- Develop additional dashboards and reports for operational use
- Foundational platform for Educational Intelligence and Analytics
- Rollout schedule TBD

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SLDS Technical Roadmap

SLDS District Pilots Project(Requirements)

School District Systems
- SIS
- District Support Systems

ADE Data
- Teacher
- Student (SAIS)
- Student-Teacher Course Connection
- Enterprise (Sites/Entities)
- Assessment

Pilot Dashboards (Historical)
- Assessments
- Enrollments & Withdrawals
- Attendance

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SLDS Technical Roadmap

SLDS Technical Roadmap
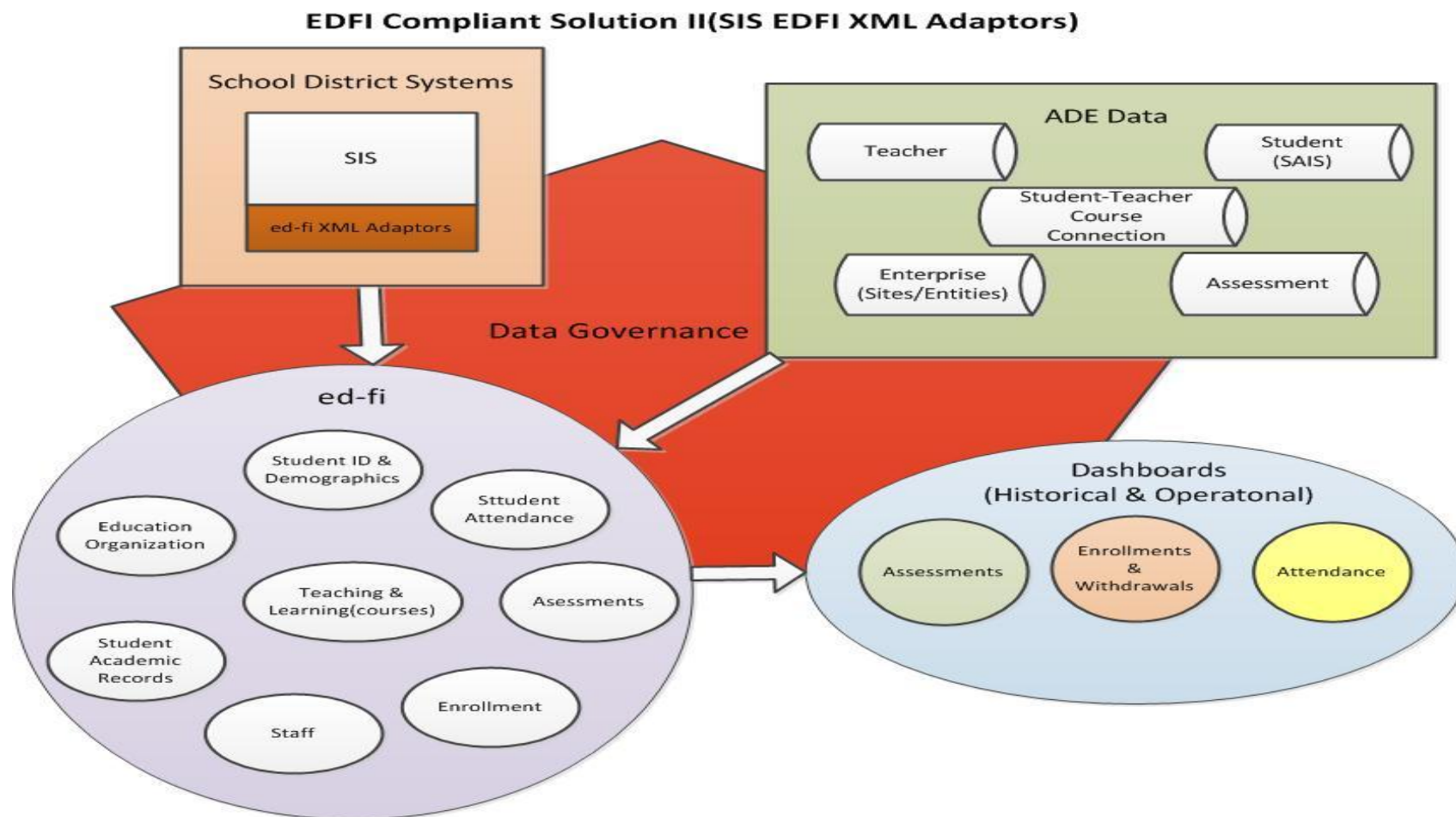
SLDS Functional Roadmap

Teacher Visualization

- Teacher Assessments
- Student- Teacher connection for courses taken

Student Visualization

- Demographics
- Program & Needs
- Attendance
- Assessments
- Student Transcripts
- Student Growth
- College Readiness

School Visualization

- Demographics
- Schedule/Calendar
- Enrollments
- Graduation Rate
- Dropout Rate
- School Performance

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Quarterly Progress Report

- For FY2013 report quarterly on progress in implementing the Education Learning and Accountability System and other related projects

- Report to Legislative leadership, Governor's Office, Joint Legislative Budget Committee

- Shall include an assessment of progress from an independent third party that is not affiliated with state government

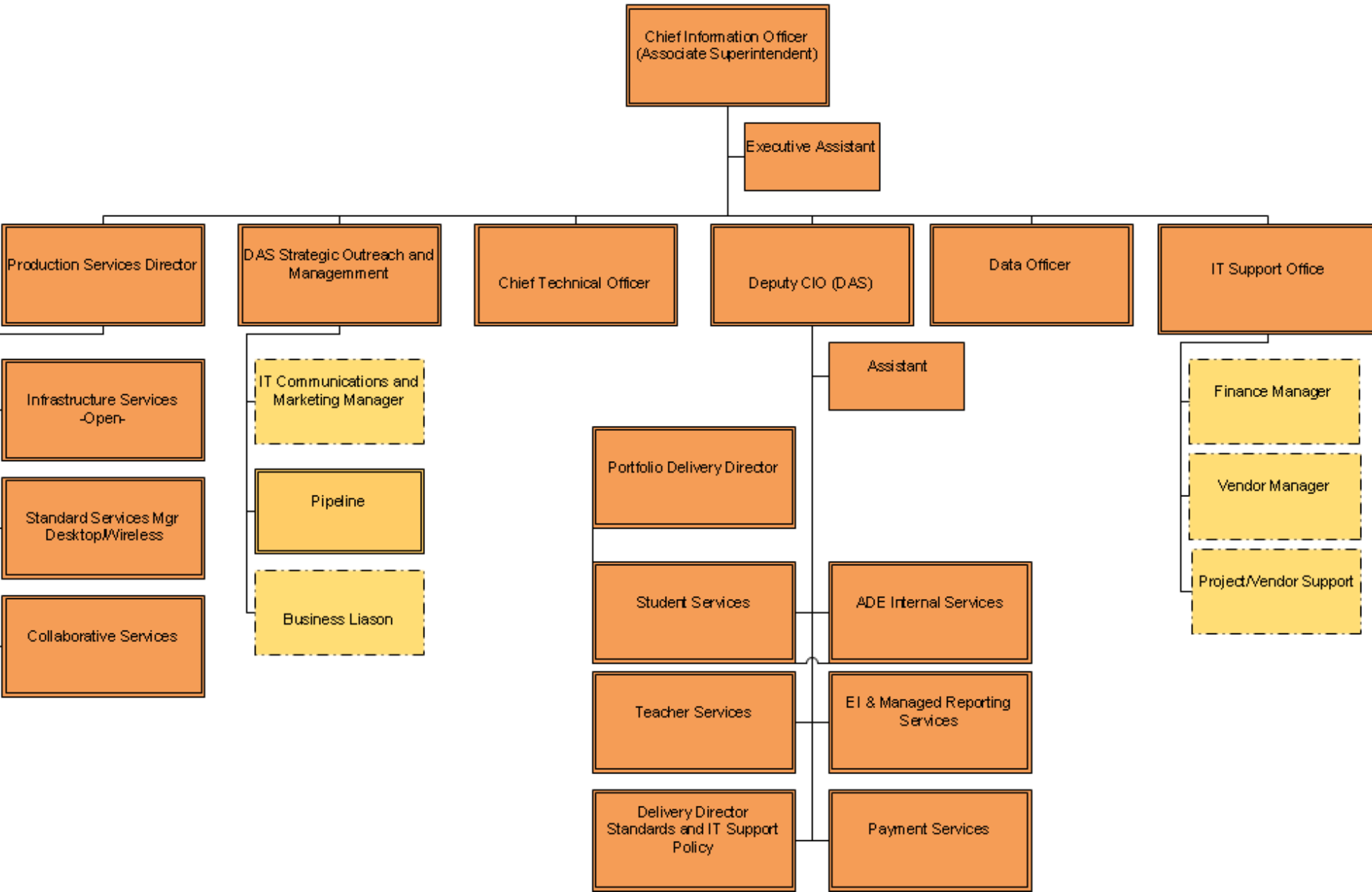- Recommended: Tangible outcomes for the quarter

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RESPONDING TO YOUR RECOMMENDATIONS

Responding to your recommendations

- Portfolio Management

- Organization
  - Delivery-based organization

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Information Technology Division

Chief Information Officer (Associate Superintendent)

Executive Assistant

- Production Services Director
  - Infrastructure Services -Open-
  - Standard Services Mgr Desktop/Wireless
  - Collaborative Services

- DAS Strategic Outreach and Management
  - IT Communications and Marketing Manager
  - Pipeline
  - Business Liason

- Chief Technical Officer

- Deputy CIO (DAS)
  - Assistant
  - Portfolio Delivery Director
  - Student Services
  - Teacher Services
  - Delivery Director Standards and IT Support Policy
  - ADE Internal Services
  - EI & Managed Reporting Services
  - Payment Services

- Data Officer

- IT Support Office
  - Finance Manager
  - Vendor Manager
  - Project/Vendor Support

Overall build out philosophy

- Buy, build, partner?

- Bound by state procurement laws

- What will stay in house

- National consortiums
  - Strategic use of limited funds
  - Link to larger data sources

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Discussion

- Team roles and expectations
  - ADE IT ideas
    - Validation for government following industry acceptable best practices
    - Third-party reviewer for Quarterly report

  - Work Group ideas

Thank You

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